

C1

d) forming an equation for the received signal as a function of the desired signal distorted by the communication channel and the noise and interference component by utilizing the signal structure obtained in steps b) and c)[,];

e) selecting of values for the filter parameters in said equation[,]; and

f) estimating the desired signal by calculation from said equation by means of said filter parameters selected in the foregoing step.

Claim 2, line 1, change "characterized in that in step d)," to --wherein-- and after "distortion" insert --in step d)--.

Claim 3, line 1, change "characterized in that" to --wherein--.

Claim 4, line 1, change "characterized in that" to --wherein--.

Claim 5, line 1, change "characterized in that in" to --wherein in--.

Claim 6, line 1, change "characterized in that" to --wherein--.

Claim 7, line 1, change "characterized in that" to --wherein--.

Claim 8, line 1, change "characterized in that" to --wherein--.

Claim 9, line 1, change "characterized in that step c)," to --wherein-- and after "interference" insert --in step c)--.

Claim 10, line 1, change "characterized, in that" to --wherein--.

Claim 11, line 1, change "characterized in that" to --wherein-- and after "parameters" delete "worth."

Claim 12, line 1, change "characterized in that" to --wherein--.

Claim 13, line 1, change "characterized in that" to --wherein--.

Claim 14, line 1, change "characterized in that" to --wherein--.

Claim 14, line 1, change "characterized in that" to --wherein--.

Claim 15, line 1, change "characterized in that" to --wherein--.

Claim 16, line 1, change "characterized in that" to --wherein--.

Claim 17, line 1, change "characterized in that" to --wherein--.

Claim 18, line 1, change "characterized in that" to --wherein--.

Claim 19, line 1, change "characterized in that" to --wherein--.

Claim 20, line 1, change "characterized in that" to --wherein--.

Claim 21, line 1, change "characterized in that" to --wherein--.

Claim 22, line 1, change "characterized in that" to --wherein--.

Claim 23, line 1, change "characterized in that" to --wherein--.

Sub D17
24. (Amended) Apparatus for rejection of noise and interference from a received combination signal having functions for estimation of the desired signal which in addition to noise and interference has been distorted by a communication channel through which the modulated transmitted desired signal has been passed, [characterized by] comprising:

- C2
- a) means for receiving a signal as a combination of noise, interference and the distorted desired signal through one or more antennas[.];
 - b) means for separating the received signal into a real and an imaginary part[.];
 - c) means for modeling the noise and interference component as a filtered process[.];
 - d) means for forming an equation for the received signal as a function of the desired signal distorted by the communication channel and the noise and interference component by utilizing the signal structure obtained in steps b) and c)[.];
 - e) means for selecting of values for the filter parameters in said equation[.]; and

C2 f) means for estimating the desired signal by calculation from said equation by
[means of] using said filter parameters.

Claim 25, line 1, change "characterized in that" to --wherein--.

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C3 26. (Amended) Apparatus of Claim 25, [characterized in that] wherein said means
for selecting of values for the filter parameters in said equation includes means for
calculating the filter parameters and channel coefficient by means of a known training
sequence from the equation by knowledge of the data sent by the signal in said training
sequence and by knowledge of the statistical properties of the noise component, and
wherein

the means for estimating the desired signal from said equation by [means of] using
said filter parameters [calculating] calculates the desired signal by [means of] using a
sequence estimator.

Claim 27, line 1, change "characterized in that" to --wherein--.

Claim 28, line 1, change "characterized in that" to --wherein--.

Claim 29, line 1, change "characterized in that the" to --wherein--.